

**X(10610)<sup>0</sup>**

$$I^G(J^P) = 1^+(1^+)$$

NODE=M214

## OMITTED FROM SUMMARY TABLE

Observed by KROKOVNY 13 in  $\Upsilon(10860) \rightarrow \Upsilon(nS)\pi^0\pi^0$  (n=2,3).Isospin 1 is favored from the proximity in mass to  $X(10610)^\pm$  and their similarity of observed decay modes and cross sections.  $J^P = 1^+$  is favored from angular analysis of  $X(10610)^\pm$  decays by BONDAR 12.

NODE=M214

**X(10610)<sup>0</sup> MASS**

NODE=M214M

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>10609±4±4</b>	<sup>1</sup> KROKOVNY 13	BELL	$e^+e^- \rightarrow \Upsilon(2S)/\Upsilon(3S)\pi^0\pi^0$

NODE=M214M

<sup>1</sup>From a simultaneous fit to the KROKOVNY 13 Dalitz analysis of  $e^+e^- \rightarrow \Upsilon(2S)/\Upsilon(3S)\pi^0\pi^0$  decays with fixed width  $\Gamma(X(10610)^0) = 18.4$  MeV.

NODE=M214M;LINKAGE=A

**X(10610)<sup>0</sup> DECAY MODES**

NODE=M214215;NODE=M214

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad \Upsilon(1S)\pi^0$	not seen
$\Gamma_2 \quad \Upsilon(2S)\pi^0$	seen
$\Gamma_3 \quad \Upsilon(3S)\pi^0$	seen

DESIG=1

DESIG=2

DESIG=3

**X(10610)<sup>0</sup> BRANCHING RATIOS**

NODE=M214225

$\Gamma(\Upsilon(1S)\pi^0)/\Gamma_{\text{total}}$	VALUE	DOCUMENT ID	TECN	COMMENT	$\Gamma_1/\Gamma$
	<b>not seen</b>	KROKOVNY 13	BELL	$e^+e^- \rightarrow \Upsilon(1S)\pi^0\pi^0$	

NODE=M214R01  
NODE=M214R01

$\Gamma(\Upsilon(2S)\pi^0)/\Gamma_{\text{total}}$	VALUE	DOCUMENT ID	TECN	COMMENT	$\Gamma_2/\Gamma$
	<b>seen</b>	<sup>2</sup> KROKOVNY 13	BELL	$e^+e^- \rightarrow \Upsilon(2S)\pi^0\pi^0$	

<sup>2</sup> Combined significance in  $e^+e^- \rightarrow \Upsilon(2S)/\Upsilon(3S)\pi^0\pi^0$ , including systematics, of  $6.5\sigma$ .

NODE=M214R02  
NODE=M214R02

NODE=M214R02;LINKAGE=A

$\Gamma(\Upsilon(3S)\pi^0)/\Gamma_{\text{total}}$	VALUE	DOCUMENT ID	TECN	COMMENT	$\Gamma_3/\Gamma$
	<b>seen</b>	<sup>3</sup> KROKOVNY 13	BELL	$e^+e^- \rightarrow \Upsilon(3S)\pi^0\pi^0$	

<sup>3</sup> Combined significance in  $e^+e^- \rightarrow \Upsilon(2S)/\Upsilon(3S)\pi^0\pi^0$ , including systematics, of  $6.5\sigma$ .

NODE=M214R03  
NODE=M214R03

NODE=M214R03;LINKAGE=A

**X(10610)<sup>0</sup> REFERENCES**

NODE=M214

KROKOVNY 13	PR D88 052016	P. Krokovny <i>et al.</i>	(BELLE Collab.)
BONDAR 12	PRL 108 122001	A. Bondar <i>et al.</i>	(BELLE Collab.)

REFID=55588  
REFID=53963